



Federal Aviation Administration

Memorandum

Date: September 24, 2010

To: Manager, Transport Standards Staff, International Branch, ANM-116

From: Manager, Transport Standards Staff, Propulsion/Mechanical Systems Branch, ANM-112

Prepared by: Steve Happenny, Aerospace Engineer ANM-112

Subject: INFORMATION: Equivalent Level of Safety (ELOS) Finding for Airbus Model A318 airplanes, FAA Project # CP102A

ELOS Memo#: CP102A-SE-3

Regulatory Ref: §§ 25.831, 25.855, 25.857, 25.858, & 25.1309

This memorandum informs the certificate management aircraft certification office of an evaluation made by the Transport Airplane Directorate on the establishment of an equivalent level of safety finding for the Airbus Model A318 airplanes for operation with air conditioning packs turned off for takeoff.

Background

The Certification basis for the Airbus Model A318 airplane includes Title 14 Code of Federal Regulations 25.831(a), Amendment 25-41, which requires that "Each passenger and crew compartment must be ventilated, and each crew compartment must have enough fresh air (but not less than 10 cu. ft. per minute per crewmember) to enable crewmembers to perform their duties without undue discomfort or fatigue." The AIRBUS Model A318 airplane includes provisions for air conditioning packs to be turned off during takeoff. With the packs turned off it is not possible to show compliance with this regulation.

Airbus requested the FAA to make an equivalent level of safety finding to allow packs off operations during takeoff per Airbus letter AI/EA-S No.413.0881/01, dated May 22, 2001.

Applicable regulation(s)

§§ 25.831, 25.855, 25.857, 25.858, & 25.1309

compartment occupied by the crew or passengers, has been addressed with the air conditioning packs turned off.

FAA approval and documentation of the ELOS finding

The FAA has approved the aforementioned equivalent level of safety finding in project issue paper (IP) SE-3 titled "Airplane Operation with Air Conditioning Packs Off." This memorandum provides standardized documentation of the ELOS finding that is non-proprietary and can be made available to the public. The Transport Airplane Directorate has assigned a unique ELOS Memorandum number (see front page) to facilitate archiving and retrieval of this ELOS. This ELOS Memorandum number should be listed in the Type Certificate Data Sheet under the Certification Basis section (TCs & ATCs) or in the Limitations and Conditions Section of the STC Certificate in accordance with the statement below:

Equivalent Level of Safety Findings have been made for the following regulation(s): 14 CFR 25.831(a), Airplane Operation with Air Conditioning Packs Off (documented in TAD ELOS Memo CP102A-SE-3).



Manager, Transport Airplane Directorate,
Aircraft Certification Service

SEPTEMBER 24, 2010

Date

ELOS Originated by Steve Happenny	Project Engineer: Steve Happenny	Routing Symbol ANM-112
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